Counting figure :-

1) Triangle. → Lc

2) Square → Lc

3) Rectangle. → Lc

4) Line counting

1) Triangle :-
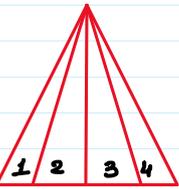
→ V.L
→ H.L
→ S.L

Triangle :-

V.L

①

$$1$$ $$2$$

$$\begin{matrix}1\\2\\3\\4\end{matrix}$$

$$\begin{matrix}1\\2 \quad 4\\3\end{matrix}$$
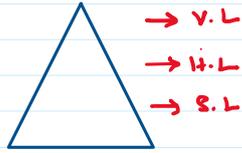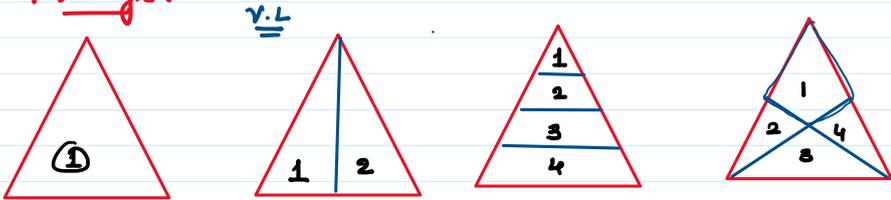
V.L ⇒ Sum of the value
⇒ 1+2 = 3 ✓

H.L ⇒ Bigger No.
⇒ 4 ✓

S.L ⇒ 4×2
⇒ 8 ✓

1 2 3 4

$$4+3+2+1 = 10 ✓$$

OR

$$\frac{4 \times 5}{2} = 10 ✓$$

$$6 \times 5 = 30$$

1 2 3 → 6
1 2 3 → 6
1 2 3 → 6
1 2 3 → 6
1 2 3 → 6

1 2 → 3
1 2 → 3
1 2 3 4 → 10
1 2 3 4 → 10

$$10+10+3+3$$
$$= 26$$

1 2 3 4 → 10
6 ← 1 2 3
          1 2 → 3
1 2 3 4 → 10
1 2 3 4 → 10

$$10+10+10+3+6 = 39 ✓$$

1   2   3 → 6 ✓
① 1
10 ←
1 2 → 3
1 2 → 3
3 ← 1 2   1 2 3 → 6
3 ←   1 2 3 → 6
10 ←
10 ← 1 2 3 4

→ ⑥①
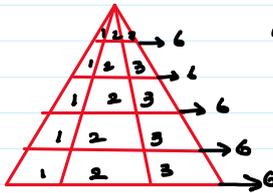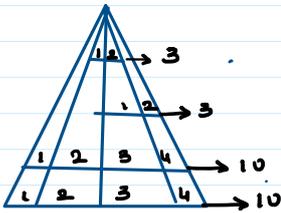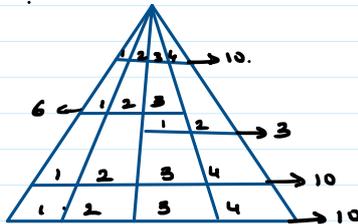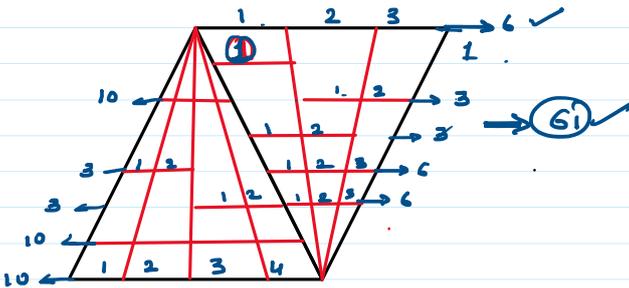
$$(10+10+10+3+3) + (1+3+3+6+6+6)$$
$$\downarrow$$
$$36+25 \Rightarrow 61 ✓$$

Type-2 (Triangle inside a triangle)

$$4+1 = 5 ✓$$

1
3
2 4

$$7+2 = 9$$

1
3   5
2   4
6   7
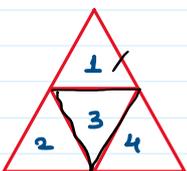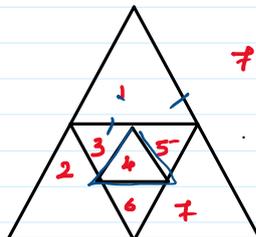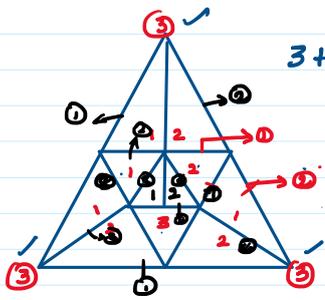
$$3+3+3+3+3+2 = 17$$

Line counting:-

$17/12 \rightarrow$ Line

$H \rightarrow 3$

$V \rightarrow 1$

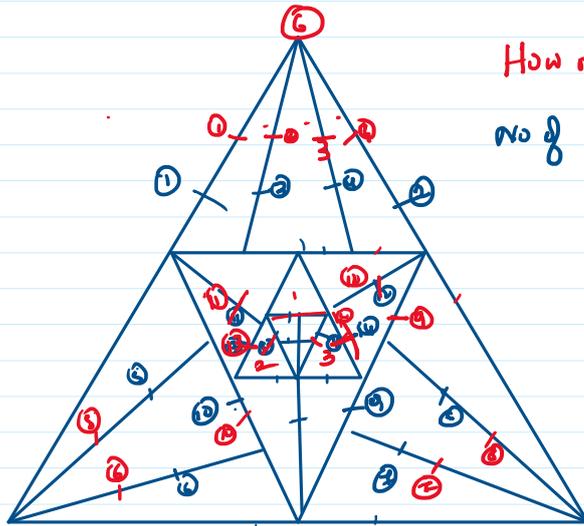$S \rightarrow \underline{8}$

$\overline{12}$
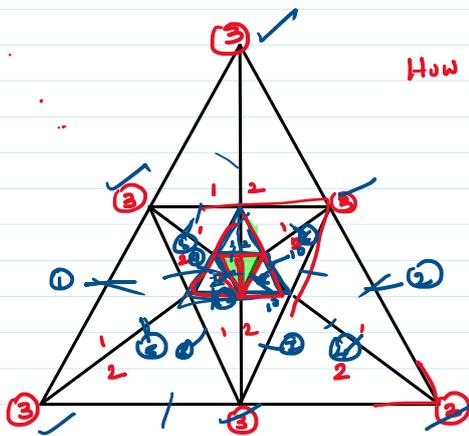
How many Lines & triangle in the given figure

$$9 + 9 + 3 + 3 + 1 + 1 + 3 + 3$$

$$\boxed{= 32 \checkmark}$$

Line's $\rightarrow H + V + S$

$\rightarrow 1 + 4 + 12 = \underline{17} \checkmark$

How many triangle's & Lines in the given figure.

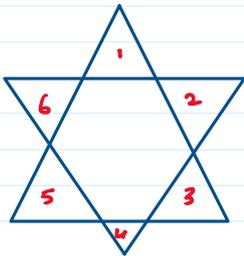No of triangle's $\rightarrow (6 \times 3) + (3 \times 3) + 3 + (3+3) + 3$

$\Rightarrow 18 + 9 + 3 + 6 + 3 \Rightarrow 39 \checkmark$

No of Line's $\rightarrow H + V + S$

$5 + 1 + 16$

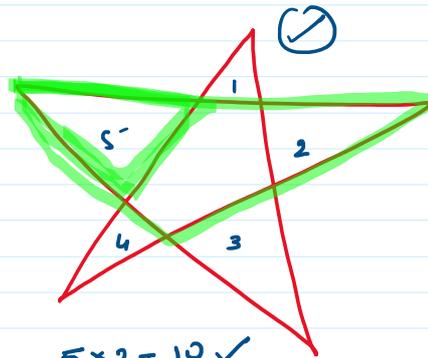$= \underline{22}$

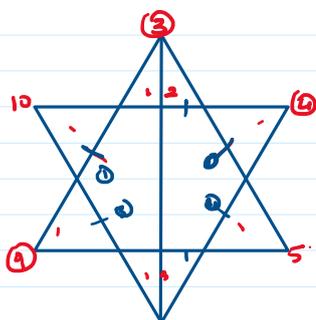Type $\rightarrow \underline{3}$ (Star base triangle)

$6 + 2 = 8$
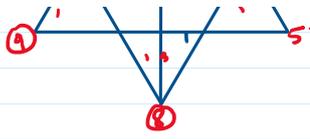
$5 \times 2 = \underline{10} \checkmark$
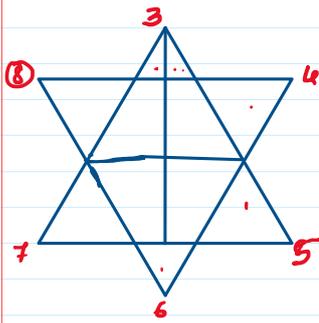
No of triangle's $\Rightarrow 10 + 3 + 3 = \underline{16}$

No of Line's $\Rightarrow H + V + S$

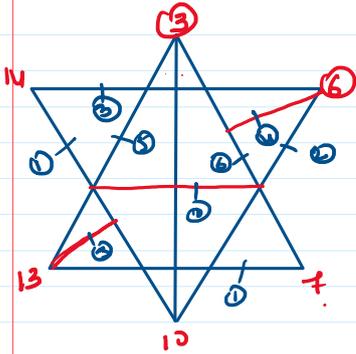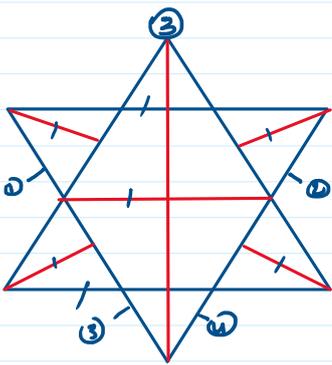$2 + 1 + 4 = \boxed{7} \checkmark$

No of triangle's = $8 + 3 + 3 + 2 = 16$ ✓

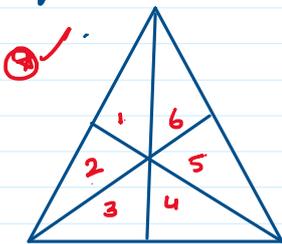No of lines = 8 ✓

No of triangle = $14 + 3 + 3 + 3 + 3 = \underline{26}$

No of lines = $H + V + S$
$3 + 1 + 6 = 10$ ✓
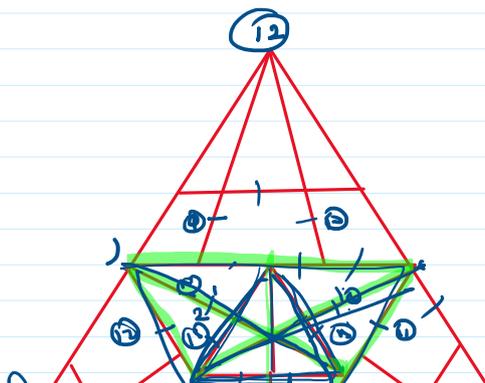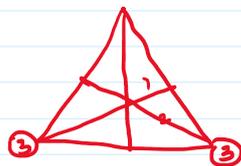
No of triangle's = $(3 \times 6) + (3 \times 2) + (3 \times 2)$
$= 18 + 6 + 6 = 30$ ✓

No of lines = $H + V + S$
$3 + 1 + 8$
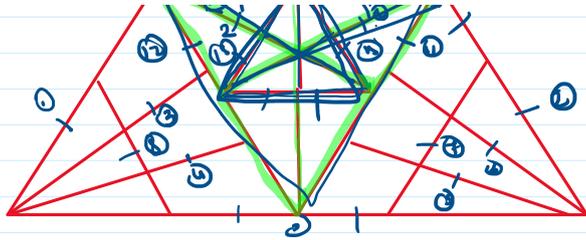$= 12$ ✓
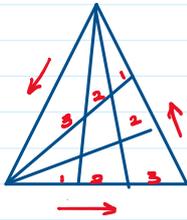
Type - 4 (Triangle. V + H + S)

$6 + 3 + 3 + 3 + 1 = \underline{16}$

No of triangle's = $(3 \times 12) + 16 + (3 \times 3) + 16$
$= 36 + 32 + 9 + 3 = 79$ ✓

No of line' = $H + V + S$
$= 4 + 1 + 16 = \boxed{21}$ ✓

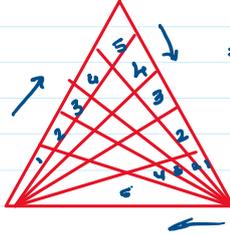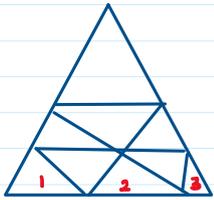$$= 4 + 1 + 16 = \boxed{21} \checkmark$$

Special triangles:-

$3^3 = 27$

$5^3 = 125$

$1 \rightarrow 1 \quad x$

$2 + \rightarrow \boxed{3}$

$3 \rightarrow 6 \quad x$

$10 + 3 = 13$
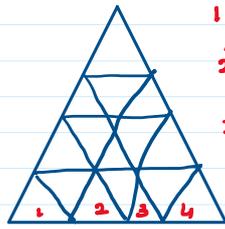
$1 + \rightarrow 1 \quad x$

$2 \rightarrow \boxed{3}$

$3 \rightarrow 6$

$4 \rightarrow 10 \quad x$

$20 + 9$

$= 29$
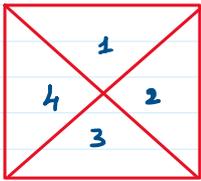
$4 \times 2 = 8$
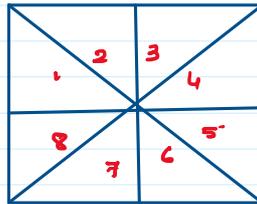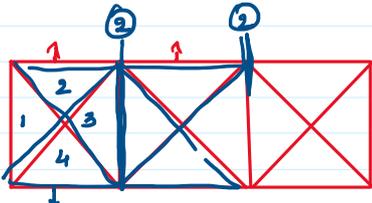
$8 \times 2 = 16$

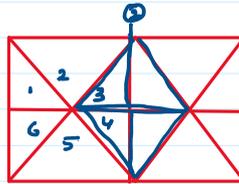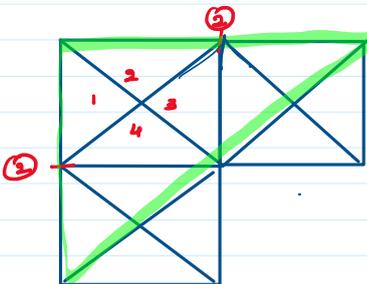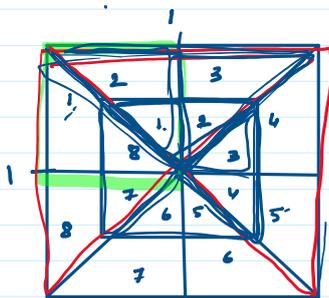$4 \times 2 = 8 \times 3 = 24 + 4 = 28 \checkmark$

$6 \times 2 = 12 \times 2 = 24 + 2 = 26 + 6 = 32 \checkmark$
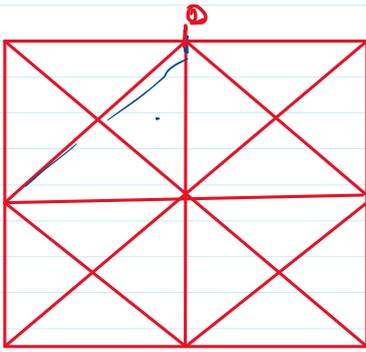
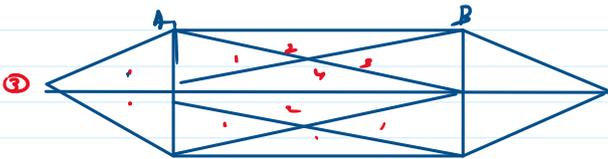$4 \times 2 = 8 \times 3 = 24 + 2 + 2 + 1$

$= 29$

$8 \times 2 = 16$
$8 \times 2 = 16$
$4 \times 2 = \dfrac{8}{40}$

①

$8 \times 4 = 32$

$2 \times 4 = 08$

$8 \times 2 = \underline{16}$

$\underline{56}$ ✓

② A   B

$8 + 8 = 16$

$3 + 3 = 06$

$2 \times 2 = 04$

20,   24,   28,   32,

Square

$(3 \times 3) + (2 \times 2) + (1 \times 1)$

$= 9 + 4 + 1 = \underline{14}$ ✓

_____
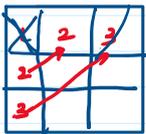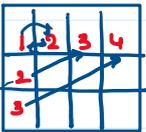
$(3 \times 4) + (2 \times 3) + (1 \times 2)$

$12 + 6 + 2 = \underline{20}$ ✓

Rectangle

$6 \times 6 = \boxed{36}$

$\boxed{10 \times 6 = 60}$

1	2	3	4
2			
3			
4			

How many ▢ & △

$(4 \times 4) + (3 \times 3) + (2 \times 2) + (1 \times 1)$

$16 + 9 + 4 + 1 = 30$

$(5 \times 4) \qquad = \underline{20}$

$\overline{50}$

△ → $8 \times 2 = 16 \times 4 = \underline{64}$ ✓

$\boxed{64, \ 50}$ ✓

How many Square & Rectangle

1	2	3	4	3
2				
3				
4				

Square

$(5 \times 4) + (4 \times 3) + (3 \times 2) + (2 \times 1)$

$= 20 + 12 + 6 + 2 = \underline{40}$

Rectangle

$15 \times 10 = \underline{150}$ ✓